

What is claimed is:

1. A vibratory double-axially sensing micro-gyroscope, which includes:
a base, center of which is arranged a supporting hub;

5 plural suspending arms, which are arranged around the supporting hub
and are extended outwardly in radial direction by taking the supporting hub
as center;

a platform, which is arranged at the outside end of the suspending arm
and is extended toward two sides horizontally by taking the suspending arm
10 as center;

static-electricity driving electrode, which is arranged below the platform
at the top of the base corresponding to the platform; and

plural capacitance sensing electrodes, which are arranged at the top of
the platform.

15 2. The vibratory double-axially sensing micro-gyroscope according to
claim 1, wherein the capacitance sensing electrodes are formed at the tops of
two sides of the platform by micro-electroplating technique.

3. The vibratory double-axially sensing micro-gyroscope according to
claim 1, wherein the suspending arms are positioned at same altitude and are
20 parallel to the base.

4. The vibratory double-axially sensing micro-gyroscope according to
claim 1, wherein at least two or even-numbered suspending arms are
arranged.

25 5. The vibratory double-axially sensing micro-gyroscope according to
claim 1, wherein the platform is extended symmetrically toward two sides of
the suspending arm by taking the axial center of the suspending arm as
center.

6. The vibratory double-axially sensing micro-gyroscope according to
claim 1, wherein the platform is shaped as arc having curvature and a
30 discontinuous ring shape is constructed by each platform.

7. The vibratory double-axially sensing micro-gyroscope according to claim 1, wherein the platform is formed as stripe shape and a discontinuous equilateral shape is constructed by each platform.

8. The vibratory double-axially sensing micro-gyroscope according to claim 1, wherein reinforcing wall structure is arranged at inside of the platform and extended toward two sides of the top of the suspending arm, and the reinforcing wall structure is connected to the capacitance sensing electrode, and another reinforcing wall structure is also arranged at outside of the platform and is not connected to the capacitance sensing electrode.

9. The vibratory double-axially sensing micro-gyroscope according to claim 1, wherein there is reinforcing piece arranged at joining place of both the suspending arm and the platform.

10. A vibratory double-axially sensing micro-gyroscope, which includes:

a base, center of which is arranged a supporting hub;

plural suspending arms, which are arranged around the supporting hub and are extended outwardly in radial direction by taking the supporting pillar as center;

a platform, which is arranged at the outside end of the suspending arm and is extended toward two sides horizontally by taking the suspending arm as center;

capacitance sensing electrode, which is arranged below the platform at the top of the base corresponding to the platform; and

plural static-electricity driving electrodes, which are arranged at the top of the platform.

11. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein the static-electricity driving electrodes are formed at the tops of two sides of the platform by plating method.

12. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein the suspending arms are positioned at same altitude and are parallel to the base.

13. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein at least two or even-numbered suspending arms are arranged.

14. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein the platform is extended symmetrically toward two sides of the suspending arm by taking the axial center of the suspending arm as center.

15. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein the platform is shaped as arc having curvature and a discontinuous ring shape is constructed by each platform.

16. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein the platform is formed as stripe shape and a discontinuous equilateral shape is constructed by each platform.

17. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein reinforcing wall structure is arranged at inside of the platform and extended toward two sides of the top of the suspending arm, and the reinforcing wall structure is connected to the static-electricity driving electrode, and another reinforcing wall structure is also arranged at outside of the platform and is not connected to the static-electricity driving electrode.

18. The vibratory double-axially sensing micro-gyroscope according to claim 10, wherein there is reinforcing piece arranged at joining place of both the suspending arm and the platform.